cleaned_data_correlation

| | DER_mass_MMC | DER_mass_transverse_met_lep |
|---|---|---|
| DER_mass_MMC | 1 | 0.2221772845 |
| DER_mass_transverse_met_lep | 0.2221772845 | 1 |
| DER_mass_vis | 0.9041509504 | 0.2693225798 |
| DER_pt_h | 0.0238052994 | -0.189527852 |
| DER_deltar_tau_lep | 0.540018681 | 0.1586098405 |
| DER_pt_tot | 0.0199464604 | 0.0433296673 |
| DER_sum_pt | 0.1091071204 | -0.0614552011 |
| DER_pt_ratio_lep_tau | 0.063610725 | 0.2843463106 |
| DER_met_phi_centrality | 0.0078959544 | -0.3522420823 |
| PRI_tau_pt | 0.2210193816 | -0.0889009076 |
| PRI_tau_eta | -0.0020561987 | 0.002886424 |
| PRI_tau_phi | -0.0051409467 | 0.0002320807 |
| PRI_lep_pt | 0.2851495053 | 0.288239317 |
| PRI_lep_eta | 0.0029629472 | 0.0056356483 |
| PRI_lep_phi | -0.0030542754 | 0.0003610906 |
| PRI_met | 0.092783764 | -0.0327505757 |
| PRI_met_phi | -0.0001173597 | -0.0142264393 |
| PRI_met_sumet | 0.0807108119 | -0.0645408253 |
| PRI_jet_num | 0.0060128389 | -0.0628986656 |
| PRI_jet_leading_pt | 0.006454448 | -0.1517576715 |
| PRI_jet_leading_eta | 0.0024527204 | -0.0001506299 |
| PRI_jet_leading_phi | 0.0065879131 | 0.0047274378 |
| PRI_jet_all_pt | 0.003222408 | -0.1230340352 |

| DER_mass_vis | DER_pt_h | DER_deltar_tau_lep | DER_pt_tot | DER_sum_pt |
|---|---|---|---|---|
| 0.9041509504 | 0.0238052994 | 0.540018681 | 0.0199464604 | 0.1091071204 |
| 0.2693225798 | -0.189527852 | 0.1586098405 | 0.0433296673 | -0.0614552011 |
| 1 | -0.0992431796 | 0.5583365631 | -0.0087296349 | 0.0588007051 |
| -0.0992431796 | 1 | -0.6359609003 | 0.2012254504 | 0.7809838093 |
| 0.5583365631 | -0.6359609003 | 1 | -0.1338242272 | -0.4743633989 |
| -0.0087296349 | 0.2012254504 | -0.1338242272 | 1 | 0.3989374269 |
| 0.0588007051 | 0.7809838093 | -0.4743633989 | 0.3989374269 | 1 |
| 0.1365964989 | 0.0904806582 | 0.0704462964 | 0.0410108564 | 0.1143083232 |
| -0.1599608857 | 0.3539617818 | -0.1831647133 | -0.0012421956 | 0.1871725405 |
| 0.2237409896 | 0.4466227152 | -0.2832499902 | 0.075449916 | 0.4848449327 |
| -0.0042323698 | -0.0063185534 | 0.0009696496 | 0.0018433957 | -0.0046536833 |
| -0.0039642564 | 0.0068168906 | -0.0107098568 | 0.0036076273 | 0.0046243946 |
| 0.3807483189 | 0.3868356588 | -0.113832911 | 0.097791697 | 0.4555874759 |
| 0.0048672986 | -0.0086017712 | 0.007245452 | 0.0004853979 | -0.0057045753 |
| -0.0029247906 | -0.0041585019 | -0.0007619574 | -0.0050709203 | -0.0043086946 |
| -0.1511114202 | 0.7767593533 | -0.3904902892 | 0.1933492893 | 0.5454412153 |
| -0.001259787 | 0.0054263665 | -0.0007754762 | -0.0020497941 | 0.003554619 |
| 0.0237804903 | 0.711820039 | -0.4455723655 | 0.471256872 | 0.9052307542 |
| -0.0422363232 | 0.3414518324 | -0.2469148632 | 0.4371947419 | 0.6111288496 |
| -0.088758082 | 0.8305505418 | -0.5225444454 | 0.2174653607 | 0.8806639706 |
| 0.0037412736 | 0.002874363 | 0.0011556016 | -0.0042606734 | 0.0010246071 |
| 0.0043799894 | 0.0007435974 | 0.0062429316 | 0.0039397101 | 0.0023765468 |
| -0.0816673298 | 0.7257961179 | -0.4680549273 | 0.4346040211 | 0.9614449276 |

| DER_pt_ratio_lep_tau | DER_met_phi_centrality | PRI_tau_pt | PRI_tau_eta |
|---|---|---|---|
| 0.063610725 | 0.0078959544 | 0.2210193816 | -0.0020561987 |
| 0.2843463106 | -0.3522420823 | -0.0889009076 | 0.002886424 |
| 0.1365964989 | -0.1599608857 | 0.2237409896 | -0.0042323698 |
| 0.0904806582 | 0.3539617818 | 0.4466227152 | -0.0063185534 |
| 0.0704462964 | -0.1831647133 | -0.2832499902 | 0.0009696496 |
| 0.0410108564 | -0.0012421956 | 0.075449916 | 0.0018433957 |
| 0.1143083232 | 0.1871725405 | 0.4848449327 | -0.0046536833 |
| 1 | -0.0873694704 | -0.4752859049 | 0.0015541235 |
| -0.0873694704 | 1 | 0.0685280324 | -0.0020297969 |
| -0.4752859049 | 0.0685280324 | 1 | -0.0051494152 |
| 0.0015541235 | -0.0020297969 | -0.0051494152 | 1 |
| 0.0009989235 | -0.0051068549 | 0.0018411211 | -0.0010447618 |
| 0.7343490643 | -0.0458600289 | 0.0360545018 | -0.0051921236 |
| 0.0041337604 | -0.007512569 | -0.0060930915 | 0.5841580011 |
| -0.0048541124 | -0.0018162255 | 0.0030652953 | 0.0014910268 |
| 0.002764231 | 0.2321583724 | 0.1712882231 | -0.0020552991 |
| -5.43720826355326E-05 | 0.0056005239 | 0.0006685992 | -0.0001594566 |
| 0.0506384484 | 0.1679433838 | 0.4524420313 | -0.0031224991 |
| 0.0405734574 | 0.119917853 | 0.1308772883 | 0.0005891577 |
| 0.0761006568 | 0.2568974355 | 0.3777282294 | -0.0039681734 |
| 0.0031781962 | 0.0059895467 | 0.0001625562 | 0.2156509176 |
| -9.90685141176735E-06 | 0.0006682505 | 0.0038400289 | -0.0020094638 |
| 0.0747044906 | 0.2183844542 | 0.3173618015 | -0.0029692979 |

| PRI_tau_phi | PRI_lep_pt | PRI_lep_eta | PRI_lep_phi | PRI_met |
|---|---|---|---|---|
| -0.0051409467 | 0.2851495053 | 0.0029629472 | -0.0030542754 | 0.092783764 |
| 0.0002320807 | 0.288239317 | 0.0056356483 | 0.0003610906 | -0.0327505757 |
| -0.0039642564 | 0.3807483189 | 0.0048672986 | -0.0029247906 | -0.1511114202 |
| 0.0068168906 | 0.3868356588 | -0.0086017712 | -0.0041585019 | 0.7767593533 |
| -0.0107098568 | -0.113832911 | 0.007245452 | -0.0007619574 | -0.3904902892 |
| 0.0036076273 | 0.097791697 | 0.0004853979 | -0.0050709203 | 0.1933492893 |
| 0.0046243946 | 0.4555874759 | -0.0057045753 | -0.0043086946 | 0.5454412153 |
| 0.0009989235 | 0.7343490643 | 0.0041337604 | -0.0048541124 | 0.002764231 |
| -0.0051068549 | -0.0458600289 | -0.007512569 | -0.0018162255 | 0.2321583724 |
| 0.0018411211 | 0.0360545018 | -0.0060930915 | 0.0030652953 | 0.1712882231 |
| -0.0010447618 | -0.0051921236 | 0.5841580011 | 0.0014910268 | -0.0020552991 |
| 1 | -3.64276418989632E-05 | -0.0025394045 | -0.1404787784 | 0.0041530862 |
| -3.64276418989632E-05 | 1 | -0.0031085942 | -0.0033934505 | 0.1247114122 |
| -0.0025394045 | -0.0031085942 | 1 | -0.0002372791 | -0.004198826 |
| -0.1404787784 | -0.0033934505 | -0.0002372791 | 1 | -0.0040199614 |
| 0.0041530862 | 0.1247114122 | -0.004198826 | -0.0040199614 | 1 |
| 0.1046542228 | -0.0003360867 | -0.0011527936 | 0.2378439966 | 0.0035542662 |
| 0.0047375038 | 0.3493679907 | -0.004188433 | -0.0079220016 | 0.5188790304 |
| 0.0012009219 | 0.1296161511 | -0.0032404509 | -0.0020927995 | 0.2673904798 |
| 0.005292294 | 0.3265571287 | -0.0059611401 | -0.0053220126 | 0.6574107595 |
| 0.0025675685 | 0.0028354519 | 0.2354840987 | 0.0036750217 | -0.0006842021 |
| -0.1954098414 | 0.0015784797 | -0.0004002506 | -0.3005501382 | 0.0021824851 |
| 0.0050838079 | 0.2871400182 | -0.0045092154 | -0.0050989711 | 0.5790869914 |

cleaned_data_correlation

| PRI_met_phi | PRI_met_sumet | PRI_jet_num | PRI_jet_leading_pt |
|---|---|---|---|
| -0.0001173597 | 0.0807108119 | 0.0060128389 | 0.006454448 |
| -0.0142264393 | -0.0645408253 | -0.0628986656 | -0.1517576715 |
| -0.001259787 | 0.0237804903 | -0.0422363232 | -0.088758082 |
| 0.0054263665 | 0.711820039 | 0.3414518324 | 0.8305505418 |
| -0.0007754762 | -0.4455723655 | -0.2469148632 | -0.5225444454 |
| -0.0020497941 | 0.471256872 | 0.4371947419 | 0.2174653607 |
| 0.003554619 | 0.9052307542 | 0.6111288496 | 0.8806639706 |
| -5.43720826355326E-05 | 0.0506384484 | 0.0405734574 | 0.0761006568 |
| 0.0056005239 | 0.1679433838 | 0.119917853 | 0.2568974355 |
| 0.0006685992 | 0.4524420313 | 0.1308772883 | 0.3777282294 |
| -0.0001594566 | -0.0031224991 | 0.0005891577 | -0.0039681734 |
| 0.1046542228 | 0.0047375038 | 0.0012009219 | 0.005292294 |
| -0.0003360867 | 0.3493679907 | 0.1296161511 | 0.3265571287 |
| -0.0011527936 | -0.004188433 | -0.0032404509 | -0.0059611401 |
| 0.2378439966 | -0.0079220016 | -0.0020927995 | -0.0053220126 |
| 0.0035542662 | 0.5188790304 | 0.2673904798 | 0.6574107595 |
| 1 | -0.0013110839 | 0.0019521156 | 0.0047663954 |
| -0.0013110839 | 1 | 0.5701502547 | 0.8003533022 |
| 0.0019521156 | 0.5701502547 | 1 | 0.354666502 |
| 0.0047663954 | 0.8003533022 | 0.354666502 | 1 |
| 0.003595405 | -9.67207130841404E-05 | -0.0024535164 | 0.0021387687 |
| -0.2986864213 | 0.004679957 | 0.0019579589 | 0.000829988 |
| 0.0041750481 | 0.882628697 | 0.6669119818 | 0.8779198039 |

| PRI_jet_leading_eta | PRI_jet_leading_phi | PRI_jet_all_pt |
|---|---|---|
| 0.0024527204 | 0.0065879131 | 0.003222408 |
| -0.0001506299 | 0.0047274378 | -0.1230340352 |
| 0.0037412736 | 0.0043799894 | -0.0816673298 |
| 0.002874363 | 0.0007435974 | 0.7257961179 |
| 0.0011556016 | 0.0062429316 | -0.4680549273 |
| -0.0042606734 | 0.0039397101 | 0.4346040211 |
| 0.0010246071 | 0.0023765468 | 0.9614449276 |
| 0.0031781962 | -9.90685141176735E-06 | 0.0747044906 |
| 0.0059895467 | 0.0006682505 | 0.2183844542 |
| 0.0001625562 | 0.0038400289 | 0.3173618015 |
| 0.2156509176 | -0.0020094638 | -0.0029692979 |
| 0.0025675685 | -0.1954098414 | 0.0050838079 |
| 0.0028354519 | 0.0015784797 | 0.2871400182 |
| 0.2354840987 | -0.0004002506 | -0.0045092154 |
| 0.0036750217 | -0.3005501382 | -0.0050989711 |
| -0.0006842021 | 0.0021824851 | 0.5790869914 |
| 0.003595405 | -0.2986864213 | 0.0041750481 |
| -9.67207130841404E-05 | 0.004679957 | 0.882628697 |
| -0.0024535164 | 0.0019579589 | 0.6669119818 |
| 0.0021387687 | 0.000829988 | 0.8779198039 |
| 1 | -0.0068290845 | 0.0004784808 |
| -0.0068290845 | 1 | 0.0014759684 |
| 0.0004784808 | 0.0014759684 | 1 |